

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: 2004090208 A

(43) Date of publication of application: 25.03.2004

(51) Int. Cl **B81B 1/00**
 B81C 5/00

(21) Application number: 2002258885

(22) Date of filing: 04.09.2002

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**(54) ELECTRIC COMPONENT AND METHOD FOR
MANUFACTURING THE SAME**

(57) Abstract:

PROBLEM TO BE SOLVED: To provide an electric component which is produced by a production step of excellent industrial productivity by using a carbon nano-tube, and a method for manufacturing the same.

SOLUTION: The electric component comprises: matrix-shaped non-conductive base materials 12 and 16; a carbon nano-tube group 10 which is enclosed therein and includes one carbon nano-tube or a plurality of carbon nano-tubes electrically connected to each

other while only a substantial end part of at least one carbon nano-tube 10a included in the carbon nano-tube or the plurality of carbon nano-tubes is protruded from one surface of the non-conductive base materials 12 and 16; and an electrode 14 connected to a side surface of at least one carbon nano-tube 10d included in the carbon nano-tube group 10. There is also provided a method for manufacturing the component.

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